

APPLICANT Paul et al.

FILING DATE 3/30/2004

GROUP 2817

## REFERENCE DESIGNS

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
MSJ	4,067,057	1/3/78	Taddeo		
	4,590,436	5/20/86	Butler		
	4,670,832	6/2/87	Park		
	4,689,819	8/25/87	Killion		
	4,689,819 Exam. certificate	8/13/96	Killion		
	4,691,270	9/1/87	Pruitt		
	4,736,284	4/5/88	Yamagishi		
	5,276,910	1/4/94	Buchele		
	5,768,112	6/16/98	Barrett		
	5,771,166	6/23/98	Lim		
	5,939,931	8/17/99	Noro		
	5,994,963	11/1999	Kawai et al.		
	6,016,075	1/18/00	Hamo		
	6,072,362	6/6/00	Lincoln		
	6,147,886	11/14/00	Whittenbreder		
	6,188,274	2/2001	Vernon		
W	6,384,540	5/7/02	Porter		

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLAS	TRANSLATION	
						YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

W	Webster's Ninth New Collegiate Dictionary, copyright 1991, pages 384 and 1096, definitions of "drive" and "signal."
---	---

EXAMINER

SH/NGL:TON

DATE CONSIDERED

6-12-06

4-7-06

4 sheet

PATENT APPLICATION  
Page 2 of 4

FORM PTO-1449	ATTY. DOCKET NO.	SIL.P0078	SERIAL NO.	10/813,589
	APPLICANT	Paul et al.		
	FILING DATE	3/30/2004	GROUP	2817

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLAS	TRANSLATION	
							YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

M	Broskie, The Accordion Amplifier -A new single-ended topology, published 2001, Tube Cad Journal.
	Billings, Switchable Power Supply Handbook McGraw-Hill 1999.
	Grant and Gowar, Power MOSFETs Theory and Applications, Wiley 1989.
	Cuk and Middlebrook, Advances in Switch-Mode Power Conversion Vol III, Teslaco 1983.
	Hamill, Class DE Invertors and Rectifiers for DC-DC Conversion, Power Electronics Specialist Conference, June 1996, 8 pp.
	Tomescu, A Unified Approach to Class E versus Quasi-Resonant Switch Topologies, IEEE Transactions on Circuits and Systems - II: Analog and Digital Signal Processing, Vol. 45, No. June 1998, pp. 763- 766.
M	Pressman, Switching Power Supply Design, McGraw-Hill 1998, pp. 86, 101, 167, 176-177 and 482.

EXAMINER

SHING LIE TO

DATE CONSIDERED

6-12-2006

4-7-06

4 sheets

FORM PTO-1449	ATTY. DOCKET NO.	SIL.P0078	SERIAL NO.	10/813,589
	APPLICANT	Paul et al.		
	FILING DATE	3/30/2004	GROUP	2817

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLAS	TRANSLATION	
							YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

67	Zulinski and Grady, Load-independent Class E Power Inverters: Part I Theoretical Development, IEEE Transactions on Circuits and Systems, Vol.37, No. 8, Aug. 1990, pp. 1010-1018.
	Albulet, An Exact Analysis of Class-DE Amplifier at any Output Q, IEEE Transactions on Circuits and Systems - I: Fundamental Theory and Applications, Vol. 46, No. 10, Oct. 1999, pp. 1228-1239.
	Koizumi, Sekiya, Matsuo, Mori and Sasase, Resonant DC/DC Converter With Class DE Inverter and Class E Rectifier Using Thinned-Out Method (Deleting Some of the Pulses to the Rectifier), IEEE Transactions on Circuits and Systems - I: Fundamental Theory and Applications, Vol. 48, No. 1, Jan. 2001, pp. 123-126.
	Kazimierczuk and Jozwik, DC/DC Converter with Class E Zero- Voltage-Switching Inverter and Class E Zero-Current-Switching Rectifier, IEEE Transactions on Circuits and Systems, Vol. 36, No. 11, Nov. 1989, pp. 1485-1488.
	Kazimierczuk and Szaraniec, Class D-E Resonant DC/DC Converter, IEEE Transactions on Aerospace and Electronic Systems, Vol. 29, No. 3, Jul. 1993, pp. 963-976.
	Kazimierczuk, Class-E Amplifier with an Inductive Impedance Inverter, IEEE Transactions on Industrial Electronics, Vol. 37, No. 2, Apr. 1990, pp. 160-166.
u	Lee, Kim, and Chung, Control of PWM Current Source Converter and Inverter System for High Performance Induction Motor Drives, Proceedings of the 1996 IEEE IECON 22nd International Conference on Industrial Electronics, Control and Instrumentation, Aug. 1996, pp. 1100-1105.

EXAMINER	SHINGLETON	DATE CONSIDERED	6-12-06
----------	------------	-----------------	---------

4-7-06

4 sheets

PATENT APPLICATION

Page 4 of 4

FORM PTO-1449	ATTY. DOCKET NO.	SIL.P0078	SERIAL NO.	10/813,589
	APPLICANT	Paul et al.		
	FILING DATE	3/30/2004	GROUP	2817

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLAS	TRANSLATION	
						YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

b7		Ballan and Declercq, 12V $\Sigma$ - $\Delta$ Class-D Amplifier in 5V CMOS Technology, IEEE 1995 Custom Integrated Circuits Conference, pp. 559-562.
		Hajimiri and Lee, Design Issues in CMOS Differential LC Oscillators, IEEE Journal of Solid-State Circuits, Vol. 34, No. 5, May 1999, pp. 717- 724.
		Tsai and Gray, A 1.9-GHz, 1-W CMOS Class-E Power Amplifier for Wireless Communications, IEEE Journal of Solid-State Circuits, Vol. 34, No. 7, July 1999, pp. 962-970.
		Boonyaroonate and Mori, Analysis and Design of Class E Isolated DC/DC Converter Using Class E Low dv/dt PWM Synchronous Rectifier, IEEE Transactions on Power Electronics, Vol. 16, No.4, July 2001, pp.514-521.
		Broskie, The Accordion Amplifier -A New Single-Ended Topology, published 2001, Tube Cad Journal.
dy		Kazimierczuk and Czarkowski, Resonant Power Converters, John Wiley & Sons, Inc. 1995, pp. 149-150 & 188-189.
		Severns and Bloom, Modern DC-To-DC Switchmode Power Converter Circuits, Van Nostrand Reinhold Company 1985, pp. 128-129.

EXAMINER	SHINGLETON	DATE CONSIDERED	6-7-06
----------	------------	-----------------	--------